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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,948	09/20/2005	Michael John Watchorn	TEBL4	6001
6980 TROUTMAN S	7590 06/19/2007 SANDERS LLP		EXAMINER	
600 PEACHTR	09/20/2005		SINGH, SUNIL	
AILANIA, G	A 30308		ART UNIT	PAPER NUMBER
			3673	
			MAIL DATE	DELIVERY MODE
			06/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	ion Summary Par	t of Paper No./Mail Date 20070610			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/20/05.	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			
		·			
* See the attached detailed Office action for a list of	of the certified copies not receive	d.			
application from the International Bureau (PCT Rule 17.2(a)).					
3. Sopies of the certified copies of the priority documents have been received in this National Stage					
2. Certified copies of the priority documents have been received in Application No.					
a)⊠ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received.					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
Priority under 35 U.S.C. § 119		,			
·	on the attached Office	, wigh of fullif (0°192.			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d).					
10) ☐ The drawing(s) filed on 9/2/05 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
9) The specification is objected to by the Examiner.					
Application Papers					
8) Claim(s) are subject to restriction and/or election requirement.					
7) Claim(s) is/are objected to.					
6)⊠ Claim(s) <u>17-32</u> is/are rejected.					
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.					
4) Claim(s) 17-32 is/are pending in the application.					
<u> </u>	•				
Disposition of Claims					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
2a) ☐ This action is FINAL . 2b) ☒ This action is non-final.					
1) Responsive to communication(s) filed on	_•				
Status					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	L. lely filed the mailing date of this communication.			
Period for Reply	VIO OET TO EVEIDE AMOUT!!	0\ 00 THEN (00\ 0.\)			
The MAILING DATE of this communication app	-				
	Sunil Singh	3673			
Office Action Summary	10/549,948 Examiner	WATCHORN, MICHAEL JOHN			
	Application No.	Applicant(s)			

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the drogue anchors must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

2. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 17-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Straub et al. (US 3237414).

Straub et al. discloses a deployable apparatus comprising a buoyant upper surface (see Fig. 5, (21)), plurality of drag elements (see Fig. 5, 10c,15).

5. Claims 17-18,20-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Desty et al. (US 3503512).

Desty et al. discloses a deployable apparatus comprising a buoyant upper surface portion (10a-10e), a plurality of drag elements (11a,b). Fluid retaining piping structures (20). Piping structure is under pressure/pump (21,23).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 17-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Straub et al. '414.

Straub et al. discloses a plurality of drag elements (see Fig. 1, member (15)) and lower single sheet buoyant structure (19). Straub et al. discloses the invention substantially as claimed. However, Straub et al. lacks a single sheet buoyant upper surface portion. It would have been considered obvious to one of ordinary skill in the art to modify Straub et al. '414 to include a single sheet buoyant upper surface portion in order to control buoyancy. It should be noted that such a modification is simply duplication of parts. Furthermore, Figure 5 of Straub et al. suggest for one to have buoyant upper and lower surfaces.

8. Claims 17, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Desty et al. (Fig. 4) in view of Desty et al. (Fig. 1).

Figure 4 of Desty et al. discloses the invention substantially as claimed. However, Figure 4 lacks a single sheet buoyant upper surface. Desty et al. Figure 1 teaches a single sheet buoyant upper surface. It would have been considered obvious to one of ordinary skill in the art to modify Figure 4 of Desty et al. by replacing the upper surface with the single sheet buoyant upper surface as taught in Figure 1 in order to prevent having to use additional piping mechanism such as members 20.

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9. Claims 31-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Straub et al. or Desty et al. in view of Meyers et al. (US 2002/0085883).

Straub et al. and Desty et al. both disclose the invention substantially as claimed.

However, they are silent about including a deployment vessel as called for in claim 31.

Meyers et al. teaches a deployment vessel as called for in claim 31 (see Fig. 7). It would have been considered obvious to one of ordinary skill in the art to modify either Straub et al. or Desty et al. to include the deployment vessel as taught by Meyers et al. since such a modification allows for rapid deployment.

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Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sunil Singh whose telephone number is (571) 272-7051. The examiner can normally be reached on Monday through Friday 10:30 AM - 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Engle Patricia can be reached on (571) 272-6660. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sunil Singh Primary Examiner Suni: Lbig Art Unit 3673

6/1/07